

PRODUCT: **Grease cartridges**

CODE: **K 3897 9500**

Revision date 18-Jan-2013

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name HIGH TEMP EP-2L HT

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Lubricating grease

### 1.3. Details of the supplier of the safety data sheet

**Supplier:**

MATO GmbH & Co. KG  
Benzstrasse 16-24  
63165-Mühlheim (Main)  
Germany  
Telephone: +49 (0) 6108 - 906 - 0 / Fax: +49 (0) 6108-906 -120

**For further information, please contact**

E-mail address of the competent person: [simon@mato.de](mailto:simon@mato.de), [isokeit@mato.de](mailto:isokeit@mato.de)

### 1.4. Emergency telephone number

Emergency telephone: 08.00h - 17.00h +49 (0) 6108-906-134. +49 (0) 6108-906-135 17.00h - 08.00h +49 (0) 178-2101458

Emergency telephone - §45 - (EC)1272/2008	
Europe	112

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Classification according to Directive 67/548/EEC or 1999/45/EC

**R phrases** This mixture is classified as not hazardous according to regulation 1999/45/EC

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

**Symbols/Pictograms** None

Signal word None

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Ingredient comments**

This product is a lithium complex grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO-extract (IP 346).

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapors.
Skin contact	Wash with soap and water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion	Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms	None known
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### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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## Section 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Use CO<sub>2</sub>, dry chemical, or foam.

#### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating and/or toxic gases.

### 5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Extremely slippery when spilled.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

### 6.3. Methods and material for containment and cleaning up

#### **Methods for cleaning up**

Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

### 6.4. Reference to other sections

#### **Other information**

See Section 12: ECOLOGICAL INFORMATION.

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Extremely slippery when spilled.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Keep containers tightly closed in a cool, well-ventilated place. Keep at a temperature not exceeding 45°C. Keep away from heat, sparks and open flame.

### 7.3. Specific end use(s)

#### **Risk management methods**

The information required is contained in this Safety Data Sheet.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

## 8.2. Exposure controls

**Engineering controls** None under normal processing.

### Personal protective equipment



**Hand protection**

Wear protective nitrile rubber gloves. Thickness  $\geq 0.38$  mm - breakthrough time  $>480$  minutes. Thickness 0.1 mm - splash protection. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

**Eye/face Protection**

Avoid contact with eyes.

**Body protection**

Suitable protective clothing.

**Respiratory protection**

None under normal processing. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Semi-solid
<b>Appearance</b>	Smooth
<b>Color</b>	Yellow-brown
<b>Odor</b>	Petroleum
<b>Odor threshold</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Boiling point/boiling range		Not applicable
Flash point	$> 150$ °C / $> 302$ °F	Based on base oils
Evaporation rate		Not applicable
Flammability (solid, gas)		No information available
Flammability limits in air		No information available
Vapor pressure		Not applicable
Vapor Density		Not applicable
Specific gravity		No information available
Solubility(ies)	Insoluble in water	
Partition coefficient (n-octanol/water)		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available

Kinematic viscosity  
Dynamic viscosity

No information available  
No information available

## 9.2. Other information

Density < 1000 kg/m<sup>3</sup> @ 25 °C / 77 °F

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal processing.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity	Not hazardous based on component data.
Skin corrosion/irritation	Not hazardous based on component data.
Serious eye damage/eye irritation	Not hazardous based on component data.
Sensitization	Not hazardous based on component data.
Germ cell mutagenicity	Not hazardous based on component data.
Carcinogenicity	Not hazardous based on component data.
Reproductive toxicity	Not hazardous based on component data.
STOT-single exposure	Not hazardous based on component data.
STOT-repeated exposure	Not hazardous based on component data.
Aspiration hazard	Not hazardous based on component data.

The following values are calculated based on chapter 3.1 of the GHS document

<b>Oral LD50</b>	5,964.00 mg/kg
<b>Dermal LD50</b>	5,304.00 mg/kg
<b>Mist</b>	89.80 mg/l

### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

<b>Inhalation</b>	Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
<b>Eye contact</b>	Not expected to cause eye irritation
<b>Skin contact</b>	Prolonged contact may cause redness and irritation
<b>Ingestion</b>	Malaise (vague feeling of discomfort)

## **Section 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.
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### **12.2. Persistence and degradability**

Not readily biodegradable.

### **12.3. Bioaccumulative potential**

Material does not bioaccumulate.

### **12.4. Mobility in soil**

**Mobility in soil**  
After release, adsorbs onto soil.

**Mobility**  
Insoluble in water.

### **12.5. Results of PBT and vPvB assessment**

No information available.

### **12.6. Other adverse effects**

No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations
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**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

**Waste codes / waste designations according to EWC / AVV** 13 08 99

## Section 14: TRANSPORT INFORMATION

Not regulated according to ADR/RID, IMDG, IATA.

### 14.1. UN number

Not regulated

### 14.2. UN proper shipping name

Not regulated

### 14.3. Transport hazard class(es)

Not regulated

### 14.4. Packing group

Not regulated

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

None

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Water hazard class (WGK)** Water endangering class = 1 (self classification)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### International inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies

AICS  
KECL

Complies  
Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical safety assessment**

No information available

**Section 16: OTHER INFORMATION**

**Full text of R-phrases referred to under sections 2 and 3**

**Full text of H-Statements referred to under sections 2 and 3**

**Revision date** 18-Jan-2013

**Revision note** Not applicable.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**